



Service Manual

Tumble dryer
Condensation
TRK4850WS-NL

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TRK4850WS-NL 8560 485 12000		
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Technical data

Dimensions

Height	85,0	cm
Width	59,5	cm
Depth	60,0	cm

Weight

Gross weight	42	kg
Net weight	40	kg

Surroundings temperature

Max. room temperature	35	°C
Min. room temperature	5	°C

Humidity

Max. relative humidity	95	%
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Power connection

Voltage	230	V
Frequency	50	Hz
Connected load	2,8	kW
Fuse	16	A

Drum data

Volume	112	l
Drum speed	57 ± 2	rpm

Airflow

Circulation air flow	180± 20	m ³ /h
Cooling air flow	180± 20	m ³ /h

Capacity of laundry

Cotton max.	5	kg
Easy care max.	2,5	kg

Condenswater evacuation

Condenswater container	3,5	l
Direct connection to the drainage		
1. Possibility:	Use a commercially available water hose	
Inner diameter	8 - 10	mm
Maximum allowable length	2,5	m
Maximum height for drain outlet	1,0	m
2. Possibility:	Outlet hose for connect into siphon	
Spare part number	4812 530 28243	
Length of hose	1,5	m

Electrical components

Heating

Type	1211 K (open coil)
Nominal voltage	230 V
Nominal power (1450 + 1050 W)	2500± 5%W
Heating resistances:	
Connectin points 8-9 (1450 W)	32,8± 5% Ω
Connectin points 8-4 (1050 W)	45,3± 5% Ω

Thermostats

Fluff thermostat (in heater) TH 1.2

Measurable between	1-3 or 2-3
Switch on temperature	70+10/-5 °C
Switch off temperature	117± 4 °C

Gentle thermostat (in heater) TH 1.3

Measurable between	4-7 or 5-7
Switch on temperature	90± 4 °C
Switch off temperature	105± 2 °C

Technical data

Internal safety thermostat (in heater) TH 1.4

Measurable	only via heater resistor
Switch on temperature	100± 6 °C
Switch off temperature	150± 5 °C

Safety thermostat (on bulkhead) TH 1.5

Switch on temperature	manual reset
Switch off temperature	125± 5 °C

Exhausting thermostat (in airchannel) TH 1.1

Switch on temperature	70± 4 °C
Switch off temperature	85± 3 °C

Timer

Type	Electronic Timer Eaton SL49WR2 3202
Nominal voltage	230 V
Frequency	47-63 Hz
Rated currents:	
Motor	≤ 6 A
Heater	≤ 16 A
Drumlight	≤ 0.1 A
Pump	≤ 6 A
Ambient temperature	0 to 75 °C
Storage temperature	-25 to 85 °C

Main- and blower motor

Type	1-phase asynchronous
Nominal voltage	230 V
Frequency	50 Hz
Power consumption	285± 7% W
Resistances of coils	
Main coil (2-3)	16± 7% Ω
Auxiliary coil (3-4)	16± 7% Ω
Rated speed with 5 kg laundry and 100% rest humidity	2700 rpm
Capacitor	10± 10% μ F

Condensation pump

Type	1-phase synchronous motor MES 30.95630...
Voltage	230 V
Frequency	50 Hz
Resistance	450± 10% Ω
Nominal current	53 mA
Blocking current	140 mA
Power consumption	14± 2 W
Speed	3000 rpm
Capacity	2,6± 1,1 l/min

Display

BK display module Low-5	EATON MV19BT1R2916
No. of LEDs	12
Buttons	- START - Gentle - Plus - Rapid - Buzzer - Anticreasing extended
Program selector	16 positions integrated ON/OFF contact 24V AC

Radio interference filter

Typ	Eichhoff BV 16.350/122
Voltage	230 V
Capacity	0,1 μ F + 2x0,015μ F X1Y+1MΩ

Spare part list

Model TRK 4850WS-NL
Service No. 856048512000
Version 856048512000

Pos. No.	12NC Code	Description
004 0	4812 440 18571	Bottom
011 0	4812 500 18054	Foot adjustable
012 0	4812 528 78033	Roll
012 1	4812 520 28039	Shaft front
012 2	4812 520 28041	Shaft rear
021 0	4812 440 18927	Front
022 0	4812 440 18926	Panel,side
024 0	4812 440 18928	Panel, rear
030 0	4812 440 19399	Table top
033 0	4812 440 18568	Plate
041 0	4812 417 18341	Hinge
053 0	4812 440 19336	Plinth metal
053 1	4812 440 18575	Plinth plastic
053 2	4812 417 28042	Lever,fastener plinth
100 0	4812 417 38015	Door
102 0	4812 452 19382	Door,flap
111 0	4812 401 48568	Grip Heatexchanger
131 0	4812 271 38362	Door lock
131 1	4812 417 18797	Cover plate
133 0	4812 417 28054	Pin door
191 0	4812 466 68461	Gasket, door
204 0	4812 466 38009	Protection
220 0	4812 418 18177	Drum CPL.
223 0	4812 418 88017	Drum lifter
261 0	4812 418 78041	Case
271 0	4812 358 18052	Belt
273 0	4812 358 18055	Pulley jokey
275 0	4812 492 68129	Spring
291 0	4812 466 68521	Gasket Drum rear
291 1	4812 466 68519	Gasket Drum front
301 0	4812 452 19381	Control panel
301 1	4812 452 19367	Frame
322 0	4812 452 19389	Insert panel TRK 4850 NL
331 0	4812 413 48222	Knob
331 1	4812 413 48239	Adapter
332 0	4812 276 18259	Button start
332 1	4812 276 18262	Button
332 2	4812 276 18263	Button
344 0	4812 214 78163	Display board
401 0	4812 361 18188	Motor
401 1	4812 401 18226	Clamp Motor
401 2	4812 401 18229	Clamp motor support
420 0	4812 121 18144	Capacitor 10UF
421 0	4812 121 18155	Interf.filter
430 0	4812 360 18079	Pump condens water
430 1	4812 466 28104	Gasket
443 0	4812 361 18189	Fan wheel
456 0	4812 259 38169	Heating element 2500W
481 2	4812 323 18001	Shunt
490 0	4812 321 18019	Cable,mains 5m (without plug)
490 0	4812 321 18026	Cable,mains 3m
521 0	4812 310 18369	Power Card-Kit
557 0	4812 271 28209	Thermostat
557 1	4812 530 58069	Gasket
564 0	4812 271 28213	Thermostat

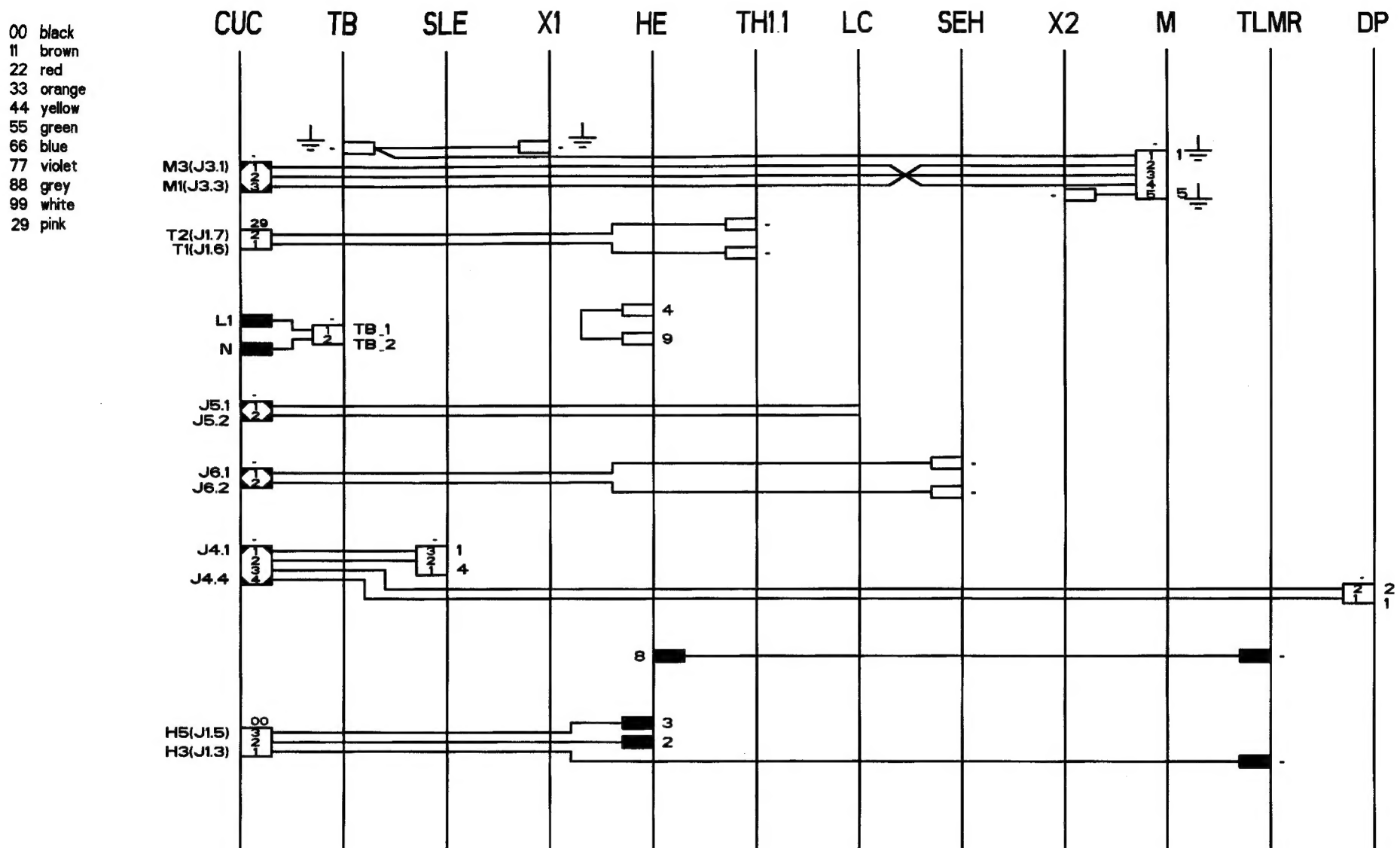
Pos. No.	12NC Code	Description
571 0	4812 360 58103	Valve
571 1	4812 360 58102	Valve body
621 1	4812 270 18001	Lever for Doorswitch
631 0	4812 271 38076	Microswitch
631 1	4812 360 18076	Floater
631 2	4812 360 58104	O-Ring
633 1	4812 276 18223	Pin
651 0	4819 134 88106	Lamp E14-220V 15W
652 0	4812 134 28056	Holder,lamp
652 1	4812 134 28055	Cover f. lamp
653 1	4812 134 48213	Light guide on/off
653 2	4812 134 48209	Light guide
653 3	4812 134 48211	Light guide vertical
653 4	4812 134 48212	Light guide horizontal
692 0	4812 480 58067	Grille with humidity sensor
692 1	4812 278 58001	Sensor
740 0	4812 511 48179	Condenser
740 1	4812 310 38184	Frame
740 2	4812 310 38064	Frame
743 0	4812 530 48152	Conveyor
743 1	4812 530 48122	Air guide f.drumlight
743 2	4812 530 48127	Cover bar
743 3	4812 464 48092	Fan box
750 0	4812 418 78044	Tank Condenswater
761 0	4812 480 58071	Filter FLUFF
781 0	4812 530 28243	Hose,draining external 1,5 m
783 0	4812 530 28803	Hose 0,98 m
783 1	4812 530 28745	Hose 1,37 m
783 2	4812 530 28802	Hose 0,73 m
794 0	4812 466 28105	O-Ring
794 1	4812 466 28103	Gasket heater channel
794 2	4812 466 98935	Sealing Heater holder
794 3	4812 466 98936	Sealing
902 2	4812 256 98015	Heating element holder
903 0	4812 532 28028	Clip,fix
903 1	4812 401 18228	Fastener
903 2	4812 401 18195	Clip
910 0	4812 502 38057	Screw Torx 4,2 x 13
912 0	4812 502 48015	Screw
922 0	4812 532 58005	Ring,circlip Triring
932 0	4812 278 18001	Spring
965 0	4812 440 19339	Lid
965 1	4812 462 79651	Cap Frosty

This is a detailed exploded view diagram of a refrigerator, showing its various components and their assembly relationships. The diagram includes the following parts and labels:

- Top Panel:** 030 0, 033 0, 571 0
- Back Panel:** 421 0, 490 0, 024 0, 261 0
- Internal Components:** 910 0, 022 0, 344 0, 521 0, 301 1, 653 2, 332 0, 653 1, 332 2, 332 1, 331 1, 653 3, 653 4
- Door Assembly:** 571 1, 783 0, 783 1, 783 2, 430 0, 430 1, 022 0, 011 0, 902 2, 794 2, 456 0, 743 0, 291 0, 564 0, 557 1, 903 2, 903 0, 743 2, 012 0, 012 2, 922 0, 291 1, 012 0, 012 1
- Compressor and Motor:** 204 0, 301 0, 102 0, 223 0, 401 1, 401 0, 275 0, 781 0, 903 1, 794 1, 481 2, 794 3, 965 1, 021 0, 743 1
- Condenser and Evaporator:** 631 2, 631 1, 220 0, 271 0, 761 0, 401 2, 794 0, 004 0, 443 0, 131 0, 912 0, 633 1, 131 1, 191 0, 100 0, 133 0, 053 2, 740 0, 740 2, 740 1, 111 0, 041 0, 051 0
- Other Components:** 024 0, 012 0, 012 1, 557 1, 557 0

The diagram also includes a small label "03000062" in the bottom left corner.

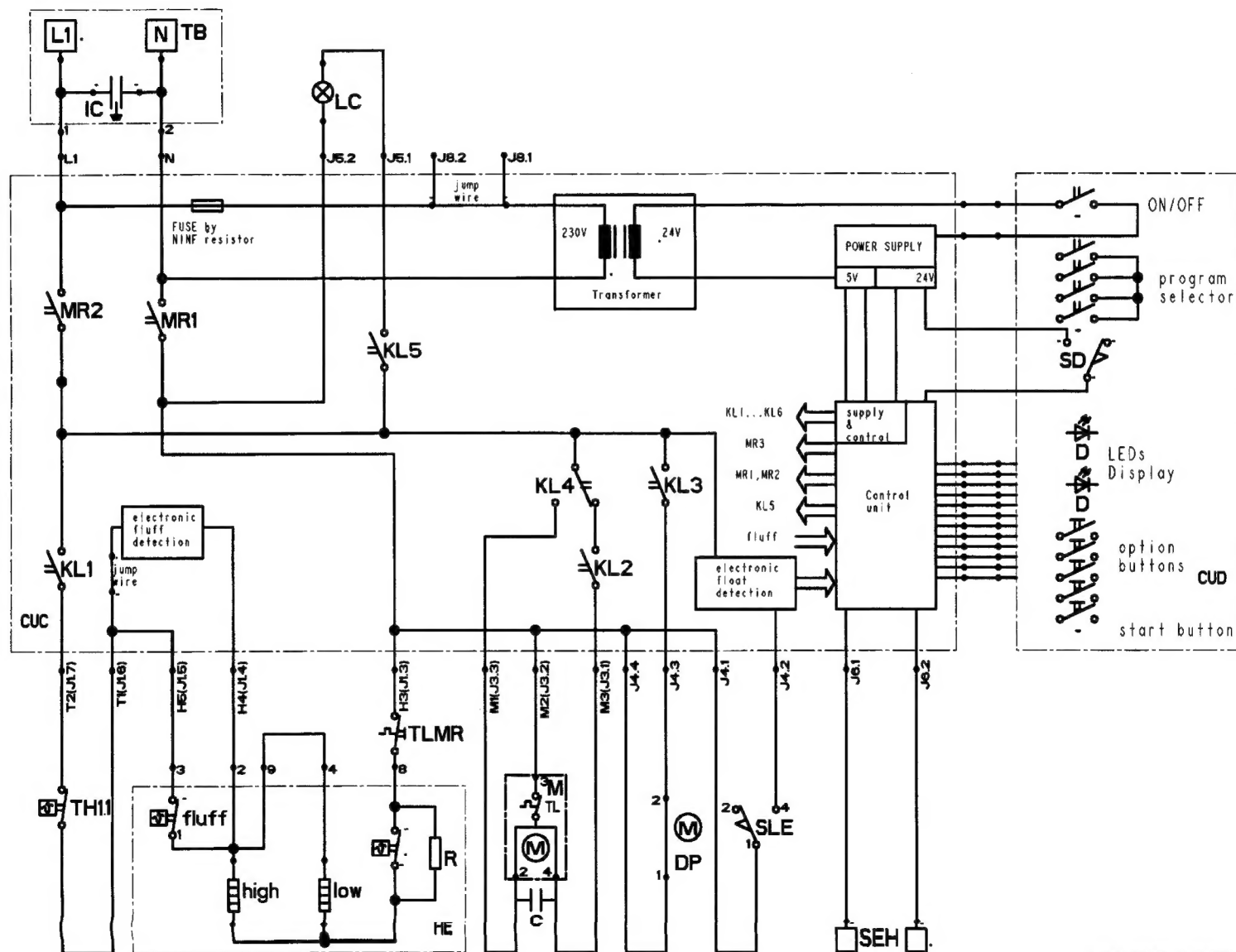
Wiring diagram



4211 012 62821

Circuit diagram

- C capacitor
CUC control unit, central
CUD control unit, display
DP drain pump
HE heating element
LC lamp (lighting), cavity
M motor, drive
SD door switch
SEH sensor, humidity
SLE level switch
TB terminal block
TH1.1 thermostat fix (drum outlet)
TLMR temp. limiter manual reset



4211 012 62811

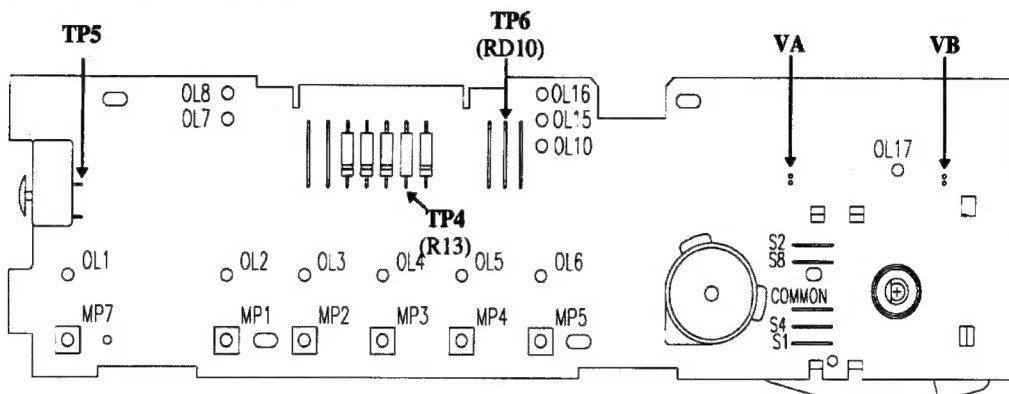
Text/Legend

Testpoints at display boards

4619 710 25671

Module No.: 12NC 4619 710 25671 and 12NC 4619 710 23601

All names are printed at the PCB!



Testvoltages: TP6 (at RD19) = GND
TP4 (at RD27) = +5V to GND
TP5 (at RD23) = +24V to GND

Program selector

TP VA <=> VB:
Position OFF 24V AC
Position ON 0V

Function of buttons

Functions when button available:

MP7 Start button
MP1 Gentle option
MP2 Plus option
MP3 Rapid option
MP4 Buzzer option
MP5 Anticreasing extendedoption(ACX)

Function of LEDs

Functions when LEDs available:

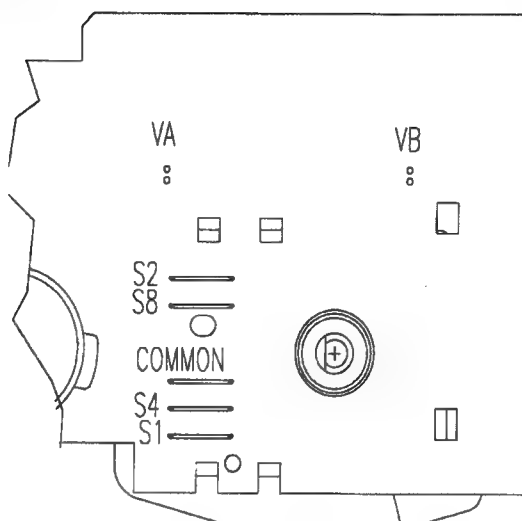
Options: OL2 Gentle LED
OL3 Plus LED
OL4 Rapid LED
OL5 Buzzer LED
OL6 ACX LED
Faults: OL8 Fluff-filter failure LED
OL7 Water container LED

Program flow: OL1 Start LED
OL10 Drying LED
OL15 Cool Down LED
OL16 End LED
OL17 ON LED

Text/Legend

Program selector

4619 710 25671



Coding of Bauknecht selector (16 positions)

Contact to common: ○ = no contact
● = contact

Position	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
S1	○	●	●	○	○	●	●	○	○	●	●	○	○	●	●	○
S2	○	○	●	●	●	●	○	○	○	○	●	●	●	●	○	○
S4	○	○	○	○	●	●	●	●	●	●	●	●	○	○	○	○
S8	○	○	○	○	○	○	○	○	●	●	●	●	●	●	●	●

Text/Legend

4619 710 25661

Program Flow Condense Dryer Module 12NC 4619 710 25661

Program phase	Options influencing program phase	Motor movement	Heating cycles				Pump cycle	Humidity measurement	Duration	Conditions to go in the next phase
			Cotton	Easy-Care	Time drying	Delicate				
Programming										
Start delay	ACX	rev-1	-	-	-	-	1 time pumping		1 ... 9 h	push start switch
	other options	no rev.	-	-	-	-				user IO actions OR delay time over
Drying I	GENTLE	rev-3	RCA	RCA	-	-	standard	on	till RH = condense dryer HT1	Condense Dryer HT 1 OR duration OR timeout 140'
	RAPID	no rev.	100%	-	-	-	standard	on	till RH = condense dryer HT1	
	other options	rev-3	RCA	RCA	DHT	DHT	standard	on	till RH = condense dryer HT1	
Drying II	GENTLE	rev-3	GHT	GHT	-	-	standard	on	till RH = condense dryer HT2	Condense Dryer HT 2
	RAPID	no rev.	100%	-	-	-	standard	on	till RH = condense dryer HT2	
	other options	rev-3	RCA	RCA	DHT	DHT	standard	on	till RH = condense dryer HT2	
Drying III	GENTLE	rev-3	DHT	DHT	-	-	standard till pumpstop	on	till RH target	selected humidity OR duration OR timeout 90' (DRII + DRIII together)
	RAPID	rev-3	GHT	-	-	-	standard till pumpstop	on	till RH target	
	other options	rev-3	GHT	GHT	DHT	DHT	standard till pumpstop	on	till RH target	
Drying III	PLUS	rev-3	DHT	DHT	-	-	standard till pumpstop	on	6 min for cotton 3 min for all others	
Cool down		rev-3	-	-	-	-	1 time pumping		9 min	
Anticreasing I	Buzzer	rev-4							10 min	duration
	other options	rev-4							10 min	duration
Anticreasing II	other options	rev-5							1 h	duration OR deselection of ANTICREASING
	ACX	rev-5							1 h	
		rev-1							3 h	
		rev-6							8 h	
Drying end									unlimited	

RCA (Heater Cycle A) = 82"ON / 8"OFF

GHT (Gentle Heater Time) = 70" ON / 20"OFF

DHT (Dynamic Heater Time) = 60"ON / 30"OFF

HT 1 = 18% RH

HT 2 = 13% RH

RH = Relative Humidity

Reversing type	cw	off	ccw	off
rev-1	10	350	10	350
rev-2	88	2	88	2
rev-3	80	2	6	2

Reversing type	cw	off	ccw	off
rev-4	45	45	45	45
rev-5	10	80	10	80
rev-6	10	710	10	710

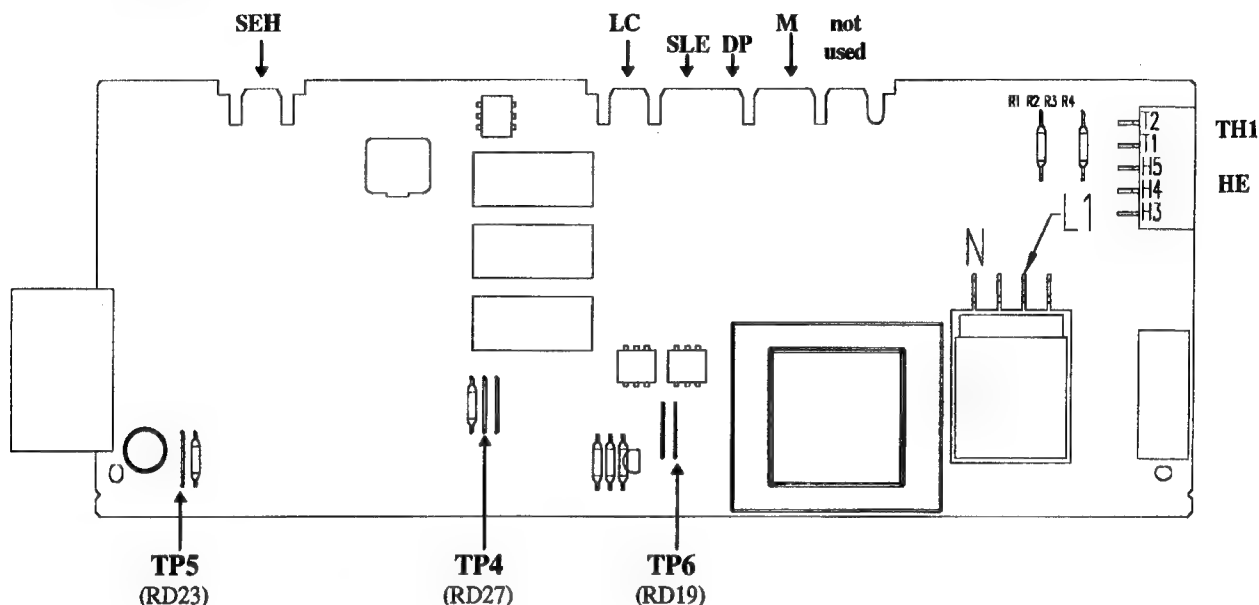
All times in seconds

Text/Legend

4619 710 25661

Testpoints at central board

All names are printed at the PCB!



Testvoltages: TP6 (at RD19) = GND
 TP4 (at RD27) = +5V to GND
 TP5 (at RD23) = +24V to GND

Entering the Test Mode

- Rotate program selector clockwise to position 1
- Push the START switch.
- Press option button 'GENTLE' and hold till d) is ready.
- Rotate program selector clockwise to position 2 and counterclockwise back to position 1
 - Rotate program selector clockwise to position 2 and counterclockwise back to position 1
 Actions ① & ② have to be done within 5 sec. (limit controlled by software).
- Release GENTLE button.

If the sequence a) - e) is correct the following signal is displayed:

LED group:	Behaviour:
Alarm LEDs	Flashing alternating
Program sequence LEDs	Flashing alternating to 'Humidity LEDs'
Humidity LEDs	Flashing alternating to 'Program Sequence LEDs'
Option LEDs	OFF
Display (7-segment)	OFF
Buzzer signal	3x BEEP

General: during test program, when the fluff filter thermostat is open, the fluff fault LED is switched ON and keeps being ON after thermostat closing till the end of the test program.

Text/Legend


```

graph TD
    A[Test Mode Entered] --> B[Selector in position 4]
    B --> C1[push GENTLE button]
    B --> C2[push GENTLE button]
    B --> C3[push GENTLE button]
    C1 --> D1[push GENTLE button]
    C2 --> D2[push GENTLE button]
    C3 --> D3[push GENTLE button]
    D1 --> E1[push GENTLE button]
    D2 --> E2[push GENTLE button]
    D3 --> E3[push GENTLE button]
    E1 --> F1[push GENTLE button]
    E2 --> F2[push GENTLE button]
    E3 --> F3[push GENTLE button]
    
```

Text/Legend

4619 710 25661

Humidity Measurement Test (Step 7 of test program)

Before test please remove SEH and plug in test cable set part No. 4812 321 28156 and RWE-Tester part No. 4812 069 52922

Max. duration: **no limit**

Description:

- Resistors have to be connected at the humidity sensor.
- The electronic control measures the value at the humidity sensor within some seconds.
- LEDs indicate the measured humidity level due to the following table.

Measured level (% RH)	GENTLE LED	Fluff Filter LED	END-LED		Resistances	for RH
< 22% ... > 21% RH	ON	OFF	OFF			
< 21% ... > 20% RH	ON	OFF	ON		250 kOhm	20.5 %
< 20% ... > 19% RH	ON	OFF	OFF			
< 19% ... > 12% RH	OFF	OFF	OFF	Test OK		
< 12% ... > 11% RH	OFF	ON	OFF			
< 11% ... > 10% RH	ON	ON	OFF		1130 kOhm	10.5 %
< 10% ... > 9% RH	OFF	ON	OFF			
9% > RH	OFF	OFF	OFF			
sensor short circuit	OFF	OFF	OFF			

Display and Button test (step 8 of test program)

Max. duration: 10 min

Description: check of start delay and options buttons and according LED function

Check of start delay:

1. push start delay button 3 times (=> '0' => '1' => '2') to check segments
2. all LEDs / segments according this button are ON

Check of option buttons:

1. push any option button
2. Corresponding LED is on, all other option LEDs keep their status.